

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P323981

Luminaire Tested: **GLEON-SA7D-827-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323981  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7D-827-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32744 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

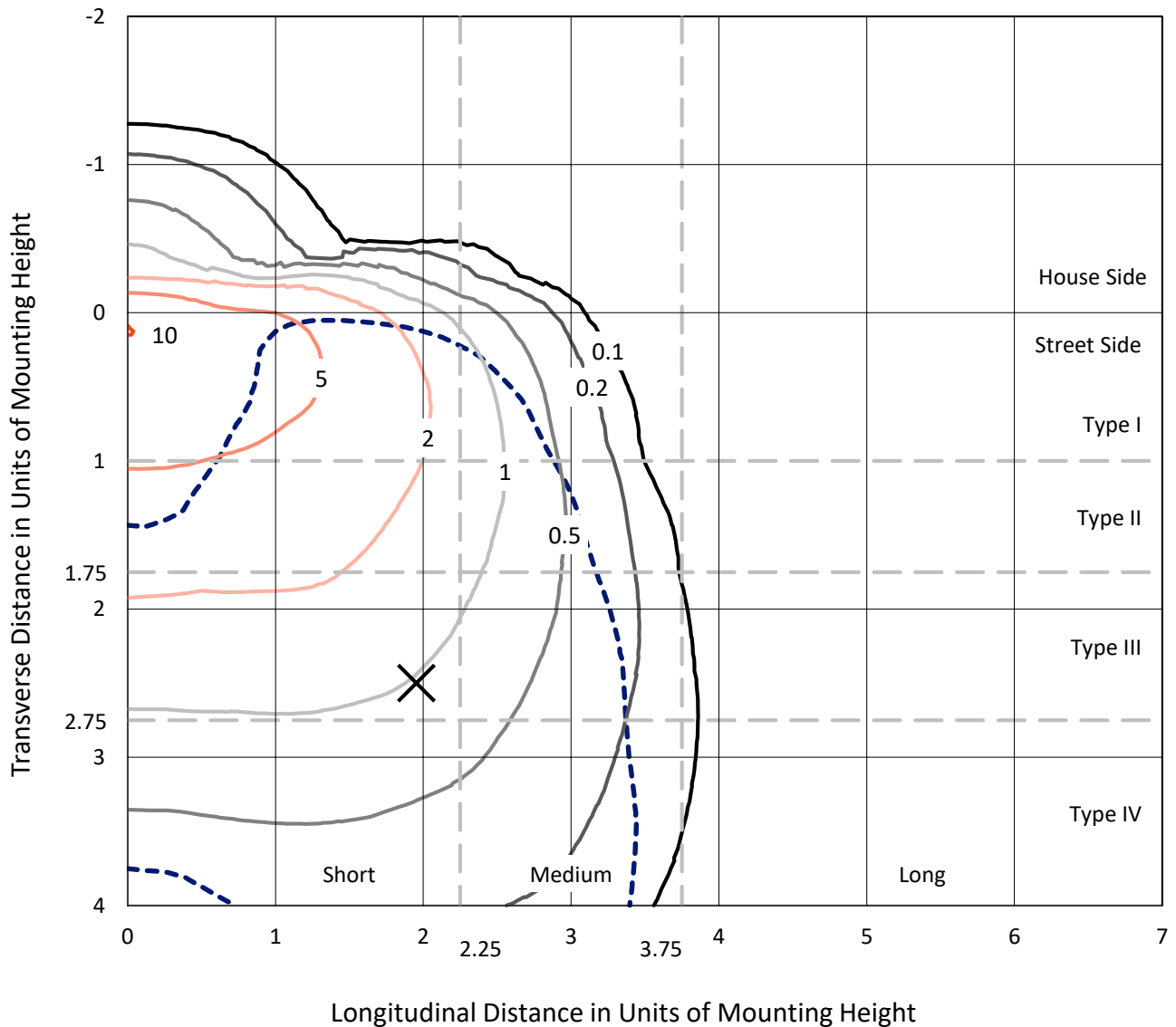
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

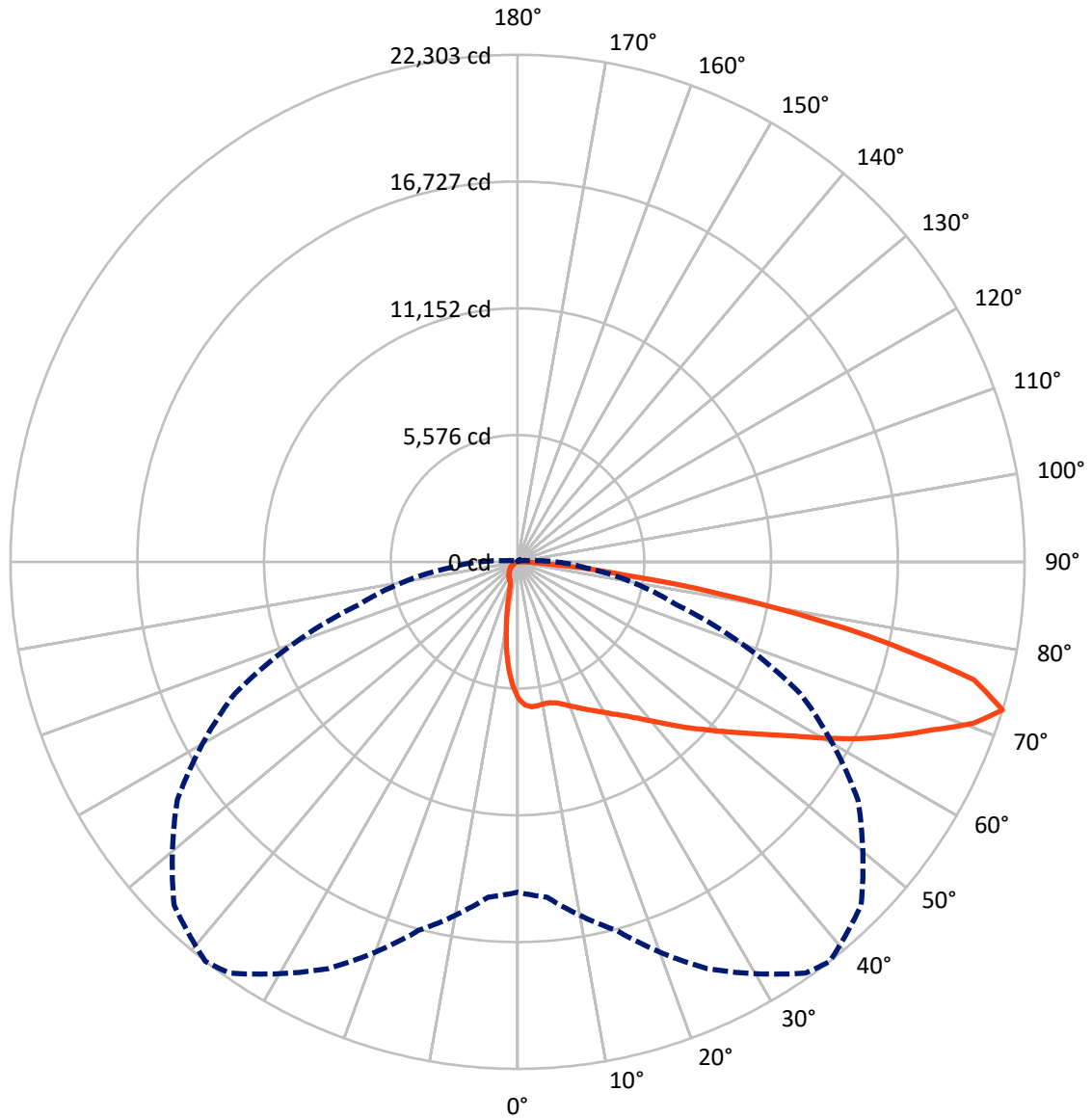
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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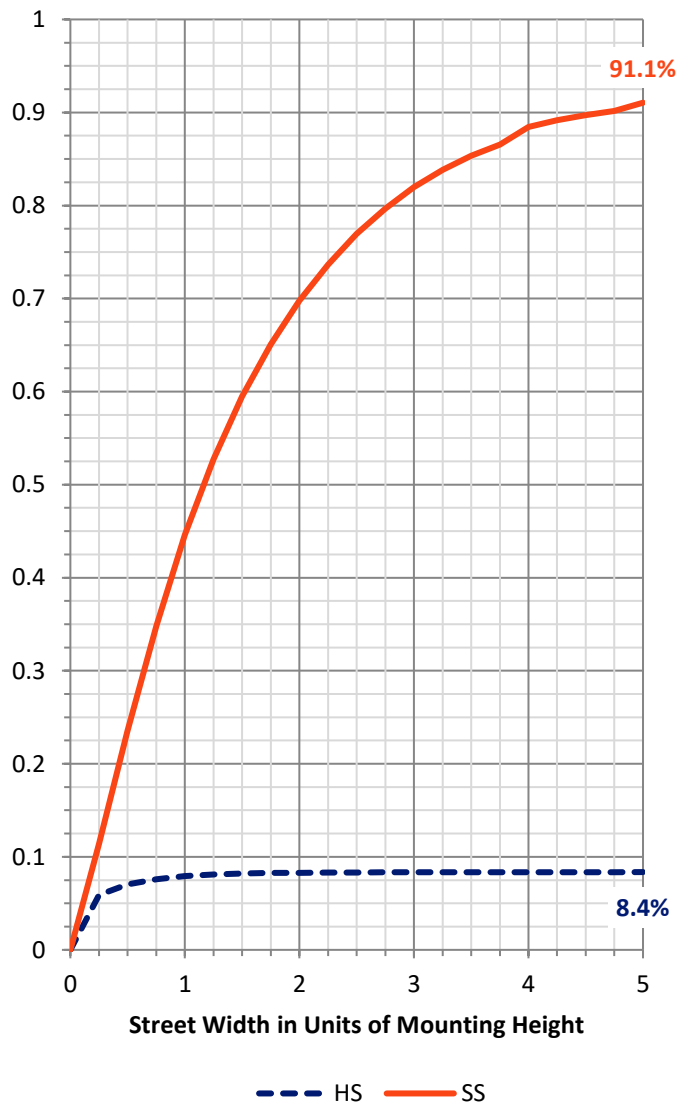
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2755.5	0.0	2755.5
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	29988.5	0.0	29988.5
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	32744.0	0.0	32744.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.1	1.6
10°-20°	1254.8	3.8
20°-30°	1995.7	6.1
30°-40°	3000.3	9.2
40°-50°	4577.1	14.0
50°-60°	6469.0	19.8
60°-70°	8114.4	24.8
70°-80°	6067.3	18.5
80°-90°	752.3	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	32744.0	100.0
0°-180°	32744.0	100.0

**Coefficient of Utilization**

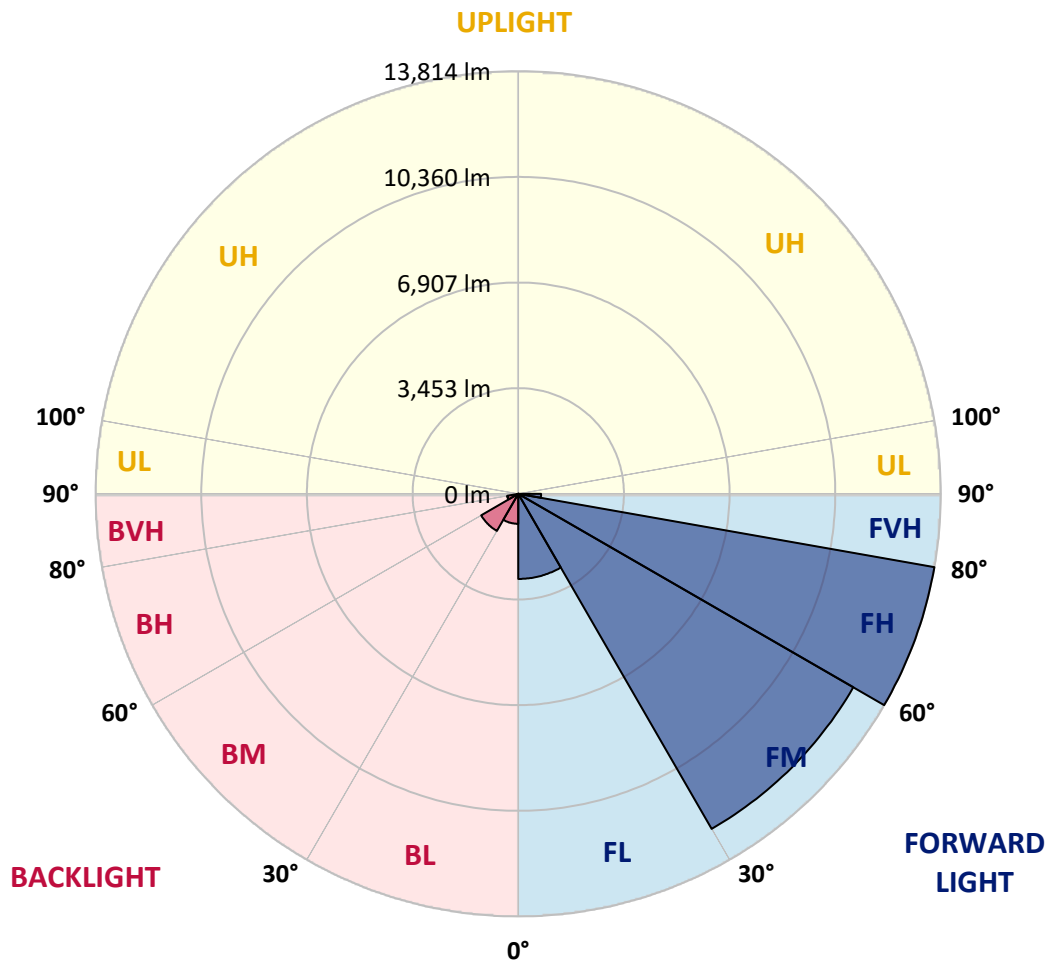


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2782.5	8.5			
FM (30°-60°)	12647.2	38.6			
FH (60°-80°)	13813.5	42.2			G5
FVH (80°-90°)	745.3	2.3			G4/750
BL (0°-30°)	981.1	3.0	B2/1000		
BM (30°-60°)	1399.3	4.3	B2/2500		
BH (60°-80°)	368.1	1.1	B1/500		G1/500
BVH (80°-90°)	7.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6021.5	6021.5	6021.5	6021.5	6021.5	6021.5	6021.5	6021.5	6021.5	6021.5	6021.5
2.5°	6391.4	6392.8	6377.8	6353.3	6322.0	6305.7	6278.5	6235.0	6188.8	6105.8	6016.1
5°	6521.9	6521.9	6502.9	6470.3	6420.0	6405.0	6353.3	6284.0	6188.8	6054.2	5903.2
7.5°	6508.3	6511.1	6485.2	6451.2	6400.9	6387.3	6324.8	6247.3	6128.9	5965.8	5772.7
10°	6437.6	6444.4	6424.0	6407.7	6361.5	6346.5	6288.0	6210.5	6092.2	5918.2	5696.5
12.5°	6365.6	6372.4	6379.2	6394.1	6365.6	6360.1	6313.9	6248.6	6135.7	5954.9	5704.7
15°	6319.3	6332.9	6381.9	6440.4	6447.2	6441.7	6411.8	6350.6	6236.4	6048.7	5763.1
17.5°	6319.3	6341.1	6443.1	6554.6	6594.0	6598.1	6572.3	6486.6	6350.6	6149.3	5817.5
20°	6372.4	6402.3	6561.4	6719.1	6784.4	6784.4	6734.1	6614.4	6455.3	6240.5	5854.2
22.5°	6508.3	6547.8	6747.7	6929.9	6999.3	6984.3	6916.3	6742.2	6564.1	6343.8	5900.5
25°	6776.2	6806.2	7014.2	7197.8	7240.0	7206.0	7120.3	6897.3	6702.8	6483.9	5984.8
27.5°	7121.7	7125.7	7340.6	7495.6	7469.8	7446.7	7339.2	7091.7	6902.7	6683.8	6130.3
30°	7501.1	7501.1	7690.1	7808.4	7729.5	7710.5	7603.0	7327.0	7158.4	6955.7	6337.0
32.5°	7868.2	7884.5	8038.2	8113.0	8024.6	8005.6	7900.9	7624.8	7498.3	7370.5	6659.3
35°	8223.1	8235.4	8380.9	8421.7	8337.4	8342.8	8268.0	8034.1	7986.5	7970.2	7144.8
37.5°	8567.2	8569.9	8718.1	8744.0	8701.8	8748.1	8754.9	8548.2	8636.5	8768.5	7828.8
40°	8881.3	8884.0	9030.9	9097.5	9169.6	9229.5	9282.5	9172.3	9464.7	9770.7	8643.3
42.5°	9132.9	9161.5	9347.8	9474.2	9664.6	9778.8	9923.0	9917.5	10450.6	10910.3	9627.9
45°	9354.6	9403.5	9663.3	9884.9	10211.3	10393.5	10619.2	10796.0	11560.3	12179.0	10624.7
47.5°	9646.9	9693.2	9989.6	10352.7	10787.9	11027.2	11401.2	11783.3	12780.1	13424.7	11598.3
50°	10059.0	10038.6	10330.9	10851.8	11410.7	11724.8	12257.9	12830.4	13990.4	14509.8	12170.9
52.5°	10498.2	10490.1	10706.3	11394.4	12145.0	12512.2	13216.6	13912.9	15147.6	15257.8	12433.3
55°	11042.2	10983.7	11165.9	12013.1	13016.7	13411.1	14240.6	14984.4	16069.6	15679.3	12565.2
57.5°	11611.9	11515.4	11689.5	12702.6	13999.9	14466.3	15374.7	16028.8	16682.9	15967.6	12563.9
60°	12200.8	12086.5	12293.2	13564.7	15221.0	15760.9	16604.0	16734.6	17255.4	16113.1	12471.4
62.5°	12693.0	12625.1	12932.4	14486.7	16585.0	17115.4	17532.8	17376.4	17738.2	16226.0	12255.2
65°	13213.9	13218.0	13714.3	15562.4	18034.6	18392.3	18427.6	18208.7	18142.1	16202.9	11523.6
67.5°	13918.3	13983.6	14811.7	17022.9	19444.8	19720.9	19718.1	19110.3	18437.1	15283.6	9901.2
70°	14663.5	14817.2	16076.4	18694.2	20984.2	21264.3	21120.2	19684.1	17360.1	12358.5	7007.4
72.5°	14538.4	14804.9	16779.5	19748.1	22089.8	22303.3	21366.3	18274.0	13721.1	7182.8	2983.6
75°	11216.2	11524.9	15385.6	18703.7	20929.8	20738.0	18358.3	14220.2	7498.3	2004.5	671.8
77.5°	5925.0	6089.5	10163.7	14248.7	16319.8	15918.7	12932.4	7888.6	2285.9	496.4	301.9
80°	3103.2	3141.3	4429.1	8084.4	10072.6	10075.3	7664.2	3465.0	942.4	254.3	202.6
82.5°	1661.8	1694.4	2340.3	3735.6	5277.7	4784.0	2934.6	1906.5	548.0	144.1	194.5
85°	399.8	406.6	1327.2	1706.6	2075.2	1482.3	871.7	1600.6	148.2	84.3	157.7
87.5°	153.7	156.4	492.3	738.4	529.0	342.7	408.0	597.0	19.0	32.6	24.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6021.5	6021.5	6021.5	6021.5	6021.5	6021.5	6021.5	6021.5	6021.5	6021.5	6021.5
2.5°	5961.7	5926.3	5839.3	5729.1	5631.2	5560.5	5454.4	5385.1	5338.9	5337.5	5319.8
5°	5810.7	5738.7	5551.0	5328.0	5125.4	4943.1	4728.3	4558.3	4431.8	4411.4	4367.9
7.5°	5648.9	5530.6	5242.3	4894.2	4554.2	4208.8	3807.6	3558.8	3345.3	3243.3	3232.4
10°	5549.6	5383.7	4974.4	4471.3	3938.2	3376.6	2851.7	2488.6	2226.1	2151.3	2095.6
12.5°	5529.2	5310.3	4767.7	4074.2	3312.6	2570.2	1989.5	1603.3	1393.9	1327.2	1309.6
15°	5549.6	5276.3	4593.6	3681.2	2678.9	1823.6	1335.4	1111.0	1032.1	1013.1	1011.7
17.5°	5561.9	5235.5	4396.5	3244.7	2064.3	1302.8	1022.6	957.3	945.1	943.8	946.5
20°	5560.5	5173.0	4161.2	2757.8	1535.3	1024.0	924.7	911.1	908.4	909.8	908.4
22.5°	5551.0	5099.5	3902.8	2256.0	1160.0	915.2	882.6	874.4	873.0	873.0	873.0
25°	5568.7	5041.0	3618.6	1776.0	956.0	864.9	844.5	837.7	836.3	836.3	833.6
27.5°	5632.6	5008.4	3307.2	1366.7	863.5	820.0	803.7	802.3	798.2	796.9	799.6
30°	5735.9	5008.4	2965.9	1063.4	807.8	773.8	761.5	758.8	757.4	756.1	757.4
32.5°	5918.2	5046.5	2593.3	883.9	754.7	722.1	713.9	718.0	713.9	713.9	713.9
35°	6247.3	5160.7	2203.0	771.0	699.0	671.8	663.6	669.1	666.3	666.3	665.0
37.5°	6727.3	5372.9	1810.0	703.1	650.0	621.5	610.6	618.7	616.0	616.0	614.7
40°	7312.0	5681.5	1436.0	651.4	602.4	572.5	563.0	567.1	560.3	560.3	563.0
42.5°	8034.1	6073.2	1109.7	601.1	554.8	526.3	520.8	516.8	504.5	497.7	499.1
45°	8836.4	6481.2	864.9	552.1	510.0	486.8	478.7	467.8	447.4	433.8	435.2
47.5°	9553.1	6795.3	703.1	504.5	469.2	451.5	439.2	418.8	388.9	372.6	374.0
50°	9929.8	6842.9	598.3	456.9	431.1	413.4	395.7	364.4	329.1	311.4	310.1
52.5°	10026.3	6619.9	520.8	413.4	393.0	372.6	349.5	307.3	267.9	248.9	246.1
55°	10061.7	6279.9	451.5	372.6	352.2	329.1	299.2	251.6	214.9	195.8	194.5
57.5°	9944.7	5772.7	397.1	335.9	311.4	282.9	246.1	201.3	165.9	150.9	150.9
60°	9685.0	5085.9	354.9	296.5	269.3	236.6	198.5	156.4	123.7	111.5	111.5
62.5°	9166.9	4196.6	315.5	255.7	229.8	195.8	160.5	118.3	87.0	80.2	81.6
65°	8189.1	3183.5	276.1	218.9	195.8	161.8	125.1	84.3	58.5	58.5	61.2
67.5°	6678.3	2211.2	235.3	186.3	168.6	131.9	95.2	58.5	40.8	46.2	51.7
70°	4420.9	1240.2	201.3	153.7	144.1	104.7	70.7	39.4	32.6	43.5	53.0
72.5°	1668.6	482.8	168.6	123.7	125.1	80.2	50.3	29.9	29.9	47.6	62.6
75°	465.1	236.6	121.0	91.1	97.9	58.5	36.7	25.8	28.6	54.4	73.4
77.5°	273.3	174.1	78.9	53.0	66.6	40.8	24.5	20.4	24.5	46.2	70.7
80°	220.3	92.5	46.2	27.2	36.7	23.1	16.3	12.2	6.8	17.7	36.7
82.5°	220.3	55.8	21.8	19.0	19.0	12.2	8.2	5.4	1.4	0.0	9.5
85°	148.2	23.1	13.6	12.2	9.5	4.1	2.7	1.4	0.0	0.0	0.0
87.5°	24.5	9.5	5.4	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)